

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

1. (Currently Amended) An ~~information terminal, including~~ apparatus comprising:

at least one processor; and

at least one memory including computer program code, where the at least one memory and the computer program code are configured, with the at least one processor, to cause the apparatus to at least:

~~data operation processing means for performing operation processing for input image data and preparing output image data, comprising:~~

~~removal means, for performing an intermittent~~ perform at least one process for input image data resulting from an a first interpolation process, and including removing, from the output image data, part or all at least part of an effect of the steps of an first interpolation process from the input image data; and

~~data processing means, for performing another prepare output data by performing a second, different, interpolation process that is more complicated than the removed interpolation process for the image data obtained by the removal means and for preparing output image data after the at least part of the effect of the first interpolation has been removed.~~

2. (Currently Amended) The ~~information terminal~~ apparatus according to claim1, comprising wherein a camera module includes including a lens, a an image sensor, and a camera digital signal processor, and wherein: where the camera digital signal processor includes a color correction means unit, a gamma correction means unit, a color interpolation means unit, and

an image quality correction means unit;

~~the camera module produces where the input image data is produced by the camera module;~~ and the removal means performs an intermittent process for where removing the at least part of the effect of the first interpolation process includes removing pixels that are interpolated by the color correction means unit of the camera digital signal processor, minimizes and minimizing affects due to a color correction process and an image quality correction process that are performed by the camera digital signal processor, and

~~again performs an arbitrary where performing the second, different, interpolation process includes performing a color interpolation process that is more complicated that is different than the removed first interpolation process and performing an arbitrary image quality correction process.~~

3. (Currently Amended) The ~~information terminal~~ apparatus according to claim 1 or 2, ~~wherein the removal means identifies where the apparatus is further caused to:~~

identify an arrangement pattern for color filters that are laid on the image sensor, ~~and~~

~~separates~~ separate color elements of pixels generated during the interpolation process by the color correction unit from color elements of pixels used to produce those color elements, and

~~selectively performs perform an intermittent a process for the color elements of the pixels generated during the interpolation process~~ by the color correction unit.

4. (Currently Amended) A ~~data processing method, including a step of comprising:~~

obtaining image data, ~~a step of~~

performing ~~an interpolation process~~ processes for the image data thus obtained, and

~~a step of outputting the image data resulting from the interpolation process~~ processes,

~~comprising the steps of where performing the interpolation processes include:~~

performing at least one process including removing, with a ~~retrial module~~ at least one

S.N.: 10/519,857
Art Unit: 2624

processor, at least part of an effect of a the first interpolation process from the image data resulting from the first interpolation process ~~by performing intermittent processes~~; and performing ~~another~~ a second, different, interpolation process ~~that is more complicated than the removed interpolation process~~ for data obtained after the at least part of the effect of the first interpolation process has been removed.

5. – 8. (Cancelled)

9. (Currently Amended) The method of claim 4, wherein the ~~intermittent processes comprise~~ at least one process includes a process performed on pixels that are interpolated by a color corrector so as to minimize affects due to a color correction process, and an image quality correction process ~~that are~~ performed by a camera digital signal processor, and where the second, different, interpolation process includes an arbitrary a color interpolation process, and an ~~arbitrary~~ image quality correction process that ~~require~~ requires an increased amount of operational processing and a greater amount of processing line memory than the ~~removed first interpolation step process~~.

10. (Currently Amended) The method of claim 9, where performing the ~~intermittent processes~~ at least one process further comprises includes:

recognizing an arrangement pattern for color filters that are laid on the image sensor,

separating color elements of pixels generated during the first interpolation processes from color elements of pixels used to produce those color elements, and

selectively processing color elements of pixels generated during the first interpolation ~~processes~~ process.

11. (Currently Amended) The ~~information terminal~~ apparatus of claim 1 embodied in a mobile device.